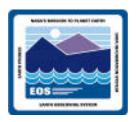


# Release B Test Program Teraisa Patterson

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2 November 1995

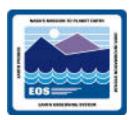
#### **Verification Goals**



#### Field a Working ECS That:

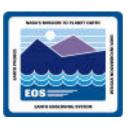
- Satisfies Baselined Requirements
- Uses Representative Sample of Real Data to Support Testing
- Follows Formalized Testing Approach
  - Continue Build/Thread Methodology test approach.
  - IR1 is using the Build/Thread Methodology and is close to completion with good results.
  - User/OPS Scenarios is the approach for Acceptance Testing.

## **ECS** Roles and Responsibilities

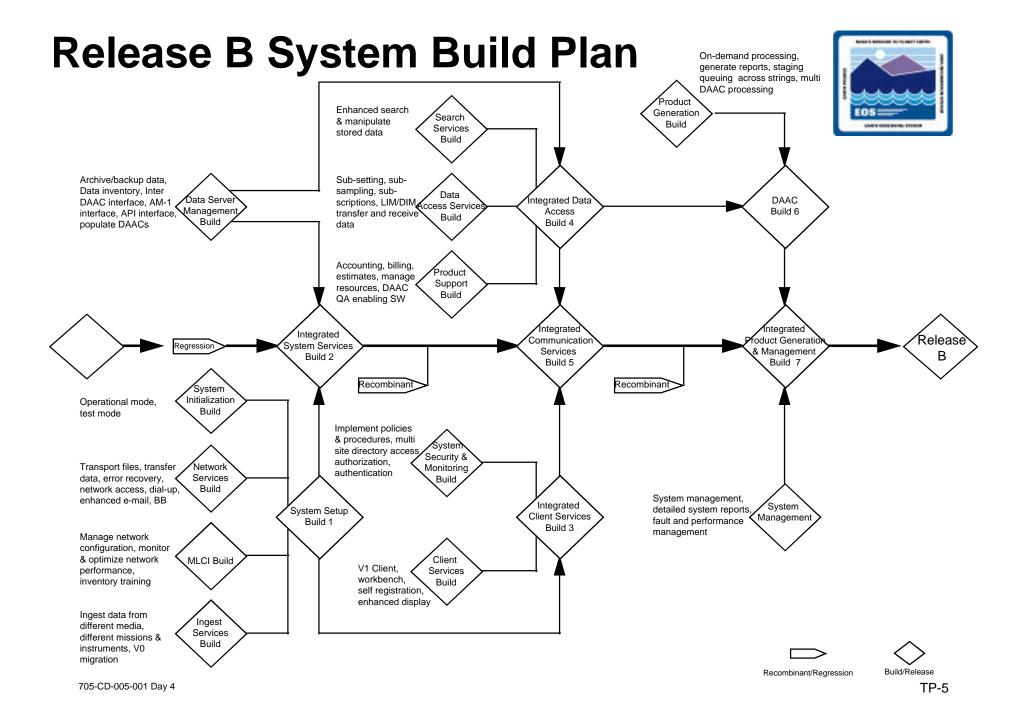


	ECS	
Design Development Code and Unit Test (at EDF)	Segment/System Test (at EDF)	IATO Acceptance Test (at Sites)
<ul> <li>Develop CSCs/CSUs</li> <li>Integrate COTS, GFE and Heritage</li> <li>Inspections and Demos</li> <li>Conduct Tests Utilizing Test Tools, Simulators, and Stubs</li> <li>ECS Release Developers Team</li> <li>I&amp;T</li> <li>QA, CM, DM</li> </ul>	<ul> <li>Use Build/Thread         Methodology for I&amp;T of         Formal/Informal Track Design         CSCs/CSUs</li> <li>Level 4 Requirements         Verification at EDF</li> <li>Level 3 Requirements         Verification at EDF</li> <li>Conduct Test Utilizing         Simulators and Test Data         (Including; Science TDSs)</li> <li>Develop ECS I&amp;T Detailed         Test Plans/Procedures</li> <li>ECS I&amp;T Team</li> <li>Developers</li> <li>IATO</li> <li>IV&amp;V</li> <li>QA, CM, DM</li> </ul>	Use Ops Scenario Test Methodology  Level 3 Requirements Verification at Operational Sites  Conduct I/F Tests with Operational/Development Systems if Available; Otherwise Simulations and Test Data (including Science TDSs)  Develop AT Detailed ECS Test Plans/Procedures)  ECS CATs Team  DAACS VW&V  ACM  Developers  I&T  QA, CM, DM

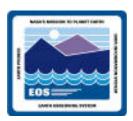
### Rel B SDPS/CSMS Test Objectives



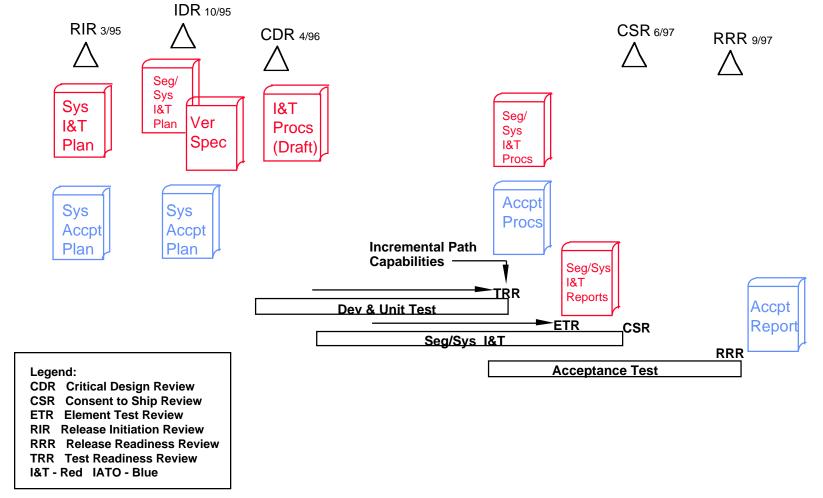
- To verify ECS System Operations to Include:
  - Data Ingest and Validation
  - On-Demand Production
  - Accounting and Billing
  - Client/User System Access
  - LIM and DIM
  - SMC Security
  - Fault and Performance Management
  - System Operability
  - Multi-DAAC Planning and Scheduling
  - Management Logistics
  - Release A Regression Testing



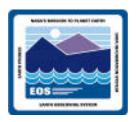
### Rel B Status - Roadmap



Milestones



#### **Acceptance Testing**



The Overall System Acceptance Test for the Release B is the final development contractor test activity. The activity verifies the function and performance of the ECS release against the Level 3 requirements.

- Lead by the Independent Acceptance Test Organization (IATO)
- Performed at the Release B DAACs (GSFC, MSFC, LaRC, EDC, NSIDC, ASF, JPL, ORNL), the SMC and the EOC
- Consent to Ship Review (CSR) and Segment Operational Readiness Review (SORR) are the entry events
- RRR is the completion event
- Details of the Acceptance Process Documented in The Acceptance Test Management Plan (ATMP) DID 415 submitted at SDR (available on the EDHS)